Bad-Debt Loss Survey, 1939

Wholesalers and Manufacturers

Propored in the Cradit Analysis Unit, Marketing Research Division!

SUMMARY

1. Compared with sales in 1938, not credit sales of reporting wholesalers gained 9 percent in 1939, with an 8.6 percent increase in total not cales. Reporting manufacturers' not credit sales advanced 12.4 percent in 1939, with total not sales moving up 11.4 percent from 1938. Credit sales were about 96 percent of total dollar volume in the samples of both wholesalers and manufacturers.

2. Net losses of reporting wholesalers averaged 0.31 percent of net credit sales in 1939, a decrease from 0.33 percent in 1938. Manufacturers' average net losses remained unchanged at 0.17 percent of net credit sales in both years.

3. In dollar volume, gross losses of wholesalers advanced one-half of 1 percent in 1939, recoveries decreased 5.9 percent, with resulting dollar volume of net losses 2 percent above those of 1938. Manufacturers gross losses were up 7.2 percent in dollar volume in 1939, recoveries were down 19.2 percent, and net loss volume gained 19.3 percent from the 1938 volume.

4. The average wholesaler wrote off 2.79 percent of

the total number of accounts receivable on his books in 1939, a decrease from 2.89 percent in 1938. The proportion for manufacturers decreased from 2.13 percent to 2.04 percent during the same period.

5. An age analysis of accounts written off indicates that in both 1938 and in 1939 less than 50 percent of wholesalers' accounts written off arose from sales of the current year. For manufacturers, not more than 35 percent of the write-off was allocated to sales of the respective years. These facts provide the basis for a fundamental criticism of present methods of loss-ratio computation.

6. Analysis of wholesalers' and manufacturers' credit terms in relation to magnitude of bad-debt losses gives evidence that the liberality of credit terms is a factor in higher losses. Credit management, however, is an important element in controlling losses, which need not rise in proportion to terms liberality if such terms are properly adapted to the appraisal of risk.

SCOPE OF THE 1939 SURVEY

The 1939 annual Bad-Debt Loss Survey is based on voluntary reports submitted by 2,283 wholesalers, representing 26 major kind-of-business groups, and 1,493 manufacturing firms, covering 14 classified industrial groups. Compared with the first annual Bad-Debt Loss Survey made a year ago, the number of reporting wholesalers decreased 5 percent and of manufacturers 6 percent. In this study covering operations in 1938 and 1939, total net sales of the wholesale firms for 1938 were 10 percent lower than the dollar volume reported in the previous study for that year, at which point the two studies overlap with reference to basic figures. The reported volume of manufacturers' total sales was virtually the same for 1938 in both the first survey and the present report. The 1939 survey differs from the first of this series of studies, which presented comparative results for 1937–38, primarily in refinements of basic data for computation of bad-debt losses and in the extent of supplementary materials provided for additional analysis.

A fundamental change in the schedule forms mailed to wholesalers and manufacturers for the 1939 study was the request for separate figures on gross losses for 1938 and 1939, as well as the dollar amounts of recoveries during both years on accounts written off in prior years. These recoveries, or amounts debited to the bad-debt loss reserve or allowance, were desired for deduction from the reported gross amount of charge-off to assure the proper determination of net losses for the respective years. Recognizing the fact that samples for the 1938 and the 1939 studies may vary in composition, although not radically different in total number of firms reporting, it is nevertheless believed that a general lowering of loss ratios where both studies overlap on the year 1938 is due in some measure to this further refinement of the data.²

Although it was intended in both the 1938 and 1939 studies to secure the identical types of information on net credit sales, number of accounts written off as bad, and total number of accounts receivable of reporting firms, it is probable that with reference to the last factor an additional refinement of phraseology on the schedule for the 1939 survey provides the main reason for a further alteration of returns between the two studies for the overlapping year 1938. Specifically,

¹ The collection, computation, and assembly of data for the 1930 Rad-Debt Loss Survey were carried through by Arnold L. Skinner, William N. Lawrence, and Guerry R. Smith, under the supervision of Malcolm L. Merdam, Chief of the Credit Analysis Unit. The National Association of Credit Men, at whose request this amount report was initiated in 1938, aided in outlining the project and in securing the connection of its members.

I Schodules for the 1923 annual Bad-Debt Less Survey requested only "had-debt lesses written off" for that year and in 1937, on the apparent assumption that the forminology would automatically produce not-less figures. Some doubt that this was entirely the case is indicated by the fact that the 1938 average less of wholesalers for the first study was 0.37 percent of coefficient, compared with 0.38 percent for the same year as shown by comparative date in the 1928 study. For manufacturers, the comparable 1938 ratios for the first and second annual studies were 0.20 percent and 0.17 percent of could sales respectively. It should not be overlooked, however, that although the samples of wholesalers and manufacturers showed respective decreases of only 3 and 4 percent from the first to the second study, there may have been wider changes in the samples according to the major factors which determine the inagnitude of letters.

because of different wording, it is believed that firms reported closer approximates of the total number of their accounts receivable for the 1939 study. For 1938, the present study shows a larger average number of accounts per firm, with the result that the amount of the average sales per account for that year is somewhat reduced in this analysis from the average for the same year given in the first annual Bad-Debt Loss Survey.³

Knowledge that the sale of time-payment accounts receivable on nonrecourse arrangements may distort had-debt loss ratios of retailers, notably automobile dealers, prompted an inquiry in this study to determine whether such sales were of measurable importance in the credit operations of wholesalers and manufacturers. In other words, if receivables are sold to a specialized financing agency which assumes responsibility for loss through failure of the creditor, the baddebt loss ratio of the seller of such receivables will be fletitious, if computed by the usual method of dividing dollar losses only on receivables retained, by the dollar amount of all credit sales, including sales representing the accounts sold. Schedules for wholesalers and manufacturers requested the amounts of receivables sold in 1938 or 1939 on arrangements relieving the seller of any liability in case of default by the creditor. These amounts were intended for deduction from net credit sales of the respective years when calculating the loss ratios.

Results of this part of the analysis were largely negative, however. Only isolated firms in scattered business groups reported any sale of receivables, and the aggregate amount of receivables sold approximated only about one-tenth of 1 percent of the total credit sales reported by wholesalers and manufacturers for either year. What is probable is that the firms selling a large proportion of their receivables with full protection against loss did not contribute reports in representative numbers to this voluntary project. Presumably, they would secure little direct benefit by comparisons of their individual results with averages based upon operations of self-financing establishments.

Entirely new supplementary features of the 1939 Bad-Debt Loss Survey are (a) an age analysis of the accounts written off by reporting firms during both of the years covered and (b) an analysis of credit terms characteristically employed by wholesalers and manu-

facturers. The broad purpose of the age analysis was to determine what proportions of accounts debited to the bad-debt reserve in a particular year actually represent the charge-off of sales made in that same year, or relate to sales of the previous year and other prior years. As discussed in another section of the report, this distribution of the write-off of accounts has direct bearing upon present standard methods for computing loss ratios against credit sales of the current year only. Facts on credit terms to show cash discounts, time allowed to take the discount, and net period, although of interest in revealing typical trade practice, were collected primarily for the purpose of bringing out possible relationships between the range of such terms and baddebt loss experience.

The contents of the present bad-debt loss study in several instances repeat the basic types of analysis which were found to produce significant relationships and were adequately reviewed in the study made a year ago. As these relationships, such as analysis of bad-debt losses by size of firm, would not change fundamentally in a short period, repetition is avoided wherever possible by confining the text to discussion of changes reflecting altered conditions in 1939 as compared with the previous year.

Owing to the large number of trades and industries covered in the report, discussion of each in close detail cannot be undertaken here. It is presumed that individual establishments obtaining the statistical data can readily segregate and apply the facts presented in the business or industry averages where they provide guides to credit policy.

CREDIT SALES

As a basic element in the computation of bad-debt-loss ratios, it is of interest to note the general trend as well as the magnitude of credit sales reported by the samples of wholesalers and manufacturers. The dollar volume of total net sales of reporting wholesalers increased 8.6 percent from 1938 to 1939. As net credit sales increased 9 percent between the 2 years, the proportion of net credit to total sales for the identical group of firms rose slightly from 91.9 to 92.2 percent (table 1).

Manufacturers' total net sales in 1939 revealed a larger increase in dollar volume of 11.4 percent above 1938, while their net credit sales showed a gain of 12.4 percent in the 2-year period. The relative advance of reporting manufacturers' credit sales carried the proportion of such sales to total sales from 89.6 to 90.4 percent (table 2).

Average Number of Accounts Per Firm and Average Credit Sales Per Account,

For all reporting wholesalers, the average number of accounts per firm increased from 1,223 in 1938 to 1,256 in 1939. Because of the larger growth of whole-

The 1938 Sad-Debt Loss Survey requested "approximate member of accounts readvable," whereas in the surrent study the question was worded "approximate number of firms (and/or individuals) to whom you sold on credit at any time * * * in [year.]." The 1938 figure shown in the survey for that year disclosed manniacturers as averaging 2,221 accounts per firm, or an average credit sale per account of \$1,824. Comparable figures for 1938 given in this study ere 2,600 accounts per firm, with an average credit sale proportionately reduced to \$102. For wholesalers, the 1938 areasses from the first and second abund surveys as number of accounts are 1,111 and 1,223, with average size of account showing a terresponding decrease from \$775 to \$555.

In answering this question, firms were requested to report "none" if no accounts were said on this basis. It was also indicated that figures given should not include insured accounts plotted for loans or held by the reporting firm. Recoveries from bad-dabt insurance were to be included, however, with all other recoveries from accounts written off in prior years, for the ultimate purpose of deduction from gross bad-dabt logges disting the year in which such recoveries were made.

salers' credit sales over the same period, their average credit sales per account increased from \$666 to \$707 for the respective years.

The average number of accounts per firm for manufacturers revealed a much more substantial advance—from 2,560 in 1938 to 2,686 last year. Despite the relatively large increase in average number of accounts per manufacturing firm, average credit sales on such accounts also gained to \$1,016 in 1939 from \$949 in 1938.

Although these averages indicate the predominant trend in each case, wide variations in size and direction of change between kinds of business and industries are shown in detail in tables 1 and 2.

BAD-DEBT LOSSES

Gross and Net Losses.

Wholesolers.—Computed from net-loss figures, the average bad-debt loss of the 2,283 reporting wholesalers declined from 0.83 percent of net credit sales in 1938, to 0.31 percent in 1939. These ratios, however, conceal somewhat different changes in the various elements entering into their calculation. Gross bad-

debt losses of reporting wholesalers advanced from \$7,872,000 in 1938 to \$7,907,000 in 1939, an increase of less than one-half of 1 percent. On the other hand, recoveries during the respective years on old accounts charged off in prior years were \$1,735,000 in 1938 and \$1,634,000 in 1939, a decrease of 5.8 percent.

Subtraction of recoveries from gross losses for each year gives a resulting net bad-debt loss for reporting wholesalers of \$6,137,000 in 1939, an increase in the dollar volume of such net losses of 2 percent from 1938 to 1939. However, as net credit sales of wholesalers increased 9 percent between the two years, the loss ratios computed from these sales declined, as previously indicated.

Obviously the rate of loss for the year would have declined more substantially had the volume of recoveries not decreased from 1938. Several explanations are possible, but the larger volume of recoveries in 1938, when conditions were relatively adverse, may reflect a vigorous effort to clean up accounts which perhaps had been written off too hastily in more prosperous years.

Although showing an absolute decrease of almost 6 percent, wholesalers' recoveries in 1939 amounted to about 21 percent of gross bad-debt losses, only slightly

Table 1.—Proportion of Bud-Debt Louises to Credit Sales of Wholesalers, by Kinds of Business, With Summary of Related Information on Sales, Recoveries, and Number of Accounts, 1939 and 1938

Elod of business	Nozo- ber of Te- per la	bed o	oemt debts redit		dit seles Vs)	Total n (00)	et sales Vs)	Of CE	etien e to e to	Arm gross par so writte	loss count	Propo of re- erie gross debt	oerv- s to bed-	Det eo Grédit	pales	Ave numi acm per	per of	Perce lote cents ton	i eo- s writ-
	Ĺ	1030	1938	1039	1938	1850	1938	1930	1938	1039	1938	1920	1988	1939	1936	1989	TR32	1030	1938
Antomotive supplies Chemicals (industrint) Paints and varnishes Clothics and (urnishings (except	150 17 28	. 18 . 74	, 20 , 27	\$29, 260 12, 771 19, 701	\$96, 548 90, 909 18, 464	\$35, 516 13, 216 21, 627	\$82, 842 11, 295 20, 828	PL 7	90.7 96.6 90.9		\$40 80 08	18.3 30.8 60.5		i 1		086 1,747 1,927		4.2H 2.1H 8.71	4.84 9.30 1.82
shoes) Shoes and other (notwear. Coal Drugs and pring smodries.	# A	.32 .33 .18	32 41 11 85	25 45 25 25 25 25 25 25 25 25 25 25 25 25 25	22, 300 50, 906 12, 005 80, 527	60 44 44 46 46 46 46 46 46 46 46 46 46 46	\$2,980 \$1,005 12,245 \$6,040	69. 3	97. 1 99. 8 98. 6 96. 6	102 193 320 217	101 217 259 211	ははいい	11.7 23.4 22.9 23.6 25.7	426 982 2,316 1,117	032 750 2, 264 1, 192	2,000 2,000 070 1,214	1,698 1,698	1.82 1.61	2 10 1 25 1 25 2 65
With Hoter department	51 18	32 33 33 33 33 24 27 24 27 24 27 24 27 24 27 24 27 24 27 27 27 27 27 27 27 27 27 27 27 27 27	32 41 31 33 45 31 31 31 32 34 34 34 34 34 34 34 34 34 34 34 34 34	06, 689 27, 081 113, 340	58, 442 26, 085	68, 423 28, 462 114, 488	66, 040 60, 068 27, 562 104, 641 224, 597	95.0 97.3	M. 6	277	100, 220 127 162	24. 5 19. 2 25. 7	10. 5 37. 4	1,232 500	I, 120 1, 303	1, 137 1, 476 1, 873	1, 106 1, 249 1, 819	2.42 Lai	8.26 1.77
Dry goods Ricatrical goods Fatta products (constants goods) Dalry and positry products Fresh fruits and velpetables	80 14 75	.27 -17 -34	.25 .14 .20	281, 261 31, 606 14, 19) 22, 466 30, 331	231,027 38,333 14,600 22,430	286, 288 48, 072 16, 237 28, 485	15,000 18,623 24,343	98.3 83.9 93.1 79.0	79.0	- 48 - 88 - 80	50 91 78	18.8 8.4 6.9 8.8	2月. 5 1. 0 10. 7	339	1,626 616 1,014	521 1, 134 408		1,70 4,21 1,00	5, 10 3, 52
Furniture and home furnishings. Confectionary. Ments and ment products. Greenigs and foods (succept farm.	I		l		3.77	40, 234 5, 843 56, 728	\$3, 406 \$, 443 \$1, 875	97. 8 70. 0 87. 9	87. 5 68. 8 87. 6	30	110 110	13.7 13.7 11.8	20.5 B.7	305 3,708	1,607 1,607	2,009 070 40±	1,041 658 451	2.01 4.03	4.80 4.80
Pull-live wholesale grocers Volantary-group wholesale	480 246 110	1		403, 772 206, 614 186, 78)	485, 959 197, 594 188, 789	546, 000 200, 228 204, 638	610, 813 220, 624 208, 671	90.4 89.7 91.3	92.1	134 122 174	180 119 180	20.0 27.1 20.2	19. d 24. d 18. d) -, **	1,000 1,018 1,021	t, 081 620 1,848	l	3,08 3,47 2,39	2.13 3.28 2.83
Entailer-cooperative wholesale grocers. Epschilty-line wholesale grocers.	13	.05	. D.5 . 25	23.094 76,383	28, 214 76, 899	24, 587 88, 432	22, 873		97. 2 87. 7		111 70 21	7.2 18.4	7.2	4,806 790	.,	•	#14 970	2.08 8.49	2 28 3 82
Beer Whee and apiritoons liquous. Berdware group General bordware.	122		35 39 41 20 29	1, 254 20, 704 357, 611 176, 385 19, 437	20, 707 280, 688 102, 820	99 946	201, 200 170, 207	10.0	94.8 94.8	120 130	180 121 133 188 188 188	2.0 11.0 24.7 28.6 30.0	2.8 5.0 27.3 20.0	55 15 15 15 15 15 15 15 15 15 15 15 15 1	514 543	1.468	1 342	R Maria	2.30 2.30
Heavy bardware. Industrial supplies. Founding and heating supplies. Foweiry Limber and building unstatisk.	1,53 1,53 88 88	. 10 .40 .50	.20 .29 .56	18, 401	60, 087 29, 665 M. 841	341, 250 183, 899 19, 648 64, 368 61, 238 10, 671	15, 010 72, 624 48, 608 17, 485	13.5	97.0 96.1 91.0 94.5 97.7	102 207	200 240	20.0 17.4 21.7 28.4 18.7	22.1	25 E	677 677 217	1, 146 717 2, 117	1, 918 640 2, 691	2.25 2.83	201
Limber and building meterials Mechietry, equipment, and supplies, except deptrion Butgles equipment and supplies	45 35	ı		28, 463 24, 090 8, 900	24, 297 22, 598 0, 274	29,093 26,245 7,800	24, 888 28, 893	97.	96.8 96.8	100 124 33	100 143 27 145		1		570 481 284	1, 104 764 976	1,050	2.52	
Paper and he moderate		.92 .40	.86 .09 .20 .20	24, 357 59, 540 95, 440 93, 900	17, 936 63, 620 90, 610	24, 456 81, 001 126, 013	18, 029 54, 683 116, 674	76.8	99. 5 97. 5 77. 6	3888888	98 97 48	11. # 19. 0	14.8 12.4 23.0 12.4	388 3,477	576 546 1. 484	1,690 1,826 8,879	784 937 1, 885 1, 834 6, 644 1, 324	8.26 2.80 1.89 1.79 2.34 4.11	2.46 2.95 1,39 1,76 8.32 4.31
Potroleum Tobecco and its products Leather and shoe findings Miscellancous		.54 .23	:#7 :#0	1,864 00,489	_	116,763 1,911 64,049	110,840 1,968 69,277	78.6 97.5 98.4	<u> </u>			18. j	27.1		542 214 307	1, 10a	8, 198	2.48 5.02	1.00
Total	2,283	.81	. 23	2, 125, 585	1, 868, 171	2, 197, 045	2, 953, 899	92.2	91.9	90	949	20.7	22.0	707	684	1, 250	1, 223	2.79	2.89

less than the proportion for 1938. As shown in table 1, recoveries for the various kinds of business indicate that the highest average proportions of recoveries to gross losses were recorded by wholesalers selling more durable goods, such as surgical equipment and supplies, and paints and varnishes. The lowest proportions of recoveries were averaged by wholesalers selling less durable goods, such as beer and farm products.

The bad-debt-loss ratios by kind of business in table 1 indicate that represented in the slight decrease in the general average for all reporting wholesalers are scattered trades revealing no change in their loss ratios, as well as a number with an increased percentage of loss between the 2 years. The table also reveals a fairly wide range from highs of 0.69 percent for wholesalers of machinery, equipment, and supplies, and 0.59

percent for plumbing and heating supplies, to lows of 0.16 percent for heavy hardware wholesalers and 0.05 percent for retailer-cooperative wholesale grocers. Although neither the average number of accounts per firm, nor the percent of total accounts written off had any direct relationship to the bad-debt percentages, these figures should be useful to the individual credit man for comparative purposes.

Manufacturers.—Net bad-debt losses of reporting manufacturers averaged 0.17 percent of their net credit sales in 1939, representing no change from the loss ratio of the previous year. Thus the average manufacturers' loss per dollar of credit sales was roughly half the loss averaged by reporting wholesalers. Gross losses for the sample of 1,493 manufacturers advanced from \$7,660,000 in 1938 to \$8,214,000 in 1989. This in-

Table 2.—Proportion of Bad-Debt Losses to Credit Sales of Manufacturers, by Industries, With Summary of Related Information on Sales, Recoveries, and Number of Accounts, 1939 and 1938

Industry	Mumber of	Perc bad-c to eq	lebis redit	Net cro		Total n (000		Prepo of et sale total	ean s lo	Aver gross per so writte	loss count	of its	DOLE -	Ave credit por se	35 123	9000		tota	a with-
		1989	1636	1939	1988	10 8 0	1000	1090	1898	1939	1008	1030	1930	1030	1028	1830	1938	1878	1938
Food and kindred products, total. Confectionary.	278 168	0, 14 , 10	0. 12 . 21	\$1,210,888 228,237	\$1,149, 0 17 219,308	\$1,344, <i>6</i> 78 \$40, 696	\$1,974,910 282,877	80.8 94.5		#78 66	\$68. 60	11. 8 15. 8	15.6 15.8	\$3, 152 487	\$2, 230 \$ 87	호 818 및 768	2,729 2,083	2.35 L.94	1 48 2,00
Plour, careais, and other grain- mill products	92	. 20 . 13	. 23 . 18	24, 383	24, 666	27, 941	97, 830	87.2 87.4	88.2	114	120	12. 8	12.1	1,226	1, 281 2, 100	911	900	122	2.03
Meet packing.	92 24 10	.134 .05	l Ana	100,066 115,641	101, 683 300, 402	199, 326 116, 641	106, 284 100, 402	100.0	98.0 100.0	1년 1년	123 95 188 97	12.8 1.2.3	11.7 24.2	1,226 2,176 31,394	2, 109 30, 165	2.042 571		2.32 2.36	3.88 3.11
Meet peaking Distilled ligners Mail Equare Wine Other food products Textiles and their products, total	20 19	. 27	-17	70 621	74, 542 12, 542	87, 268 18, 113	80, 00 L 12, 458	01.2 04.9	93.0	113 144	97 173	14.4 7.2	27.5 5.7	100	1,700 1,018	2,300	2,000 834	4,78	4. 10 4. 11
Other food products.	110	. 19	.08	644, 533	007.484	780, 889.	704. A25	86.8	80,2	70	55	8.8	l 1.5.21	1, 120	1,870	4,000	1,030	5,79 2,23 1,58	1.48
Textiles and their products, total. Clothing, man's, except help Clothing, women's, except mil-	1 7			•	233, 183 44, 724	1 1	234, 768 46, 912	98-6		127 126	160 151		12.8 20.0			' '		1,95	1.63
	20 19	, 20 . 17	. \$2 . 22	20, 194 28, 006	18,814 24,911		18, 817 26, 190	09.9 98.9	19.0 16.0	92)));)04)L8)7.6	13. 6 13. 7	414 801	103 738	2,430 9,615	9,976 9,818 1,888	1,34 1,42	1.42 1.83
Knit goeds. Other textile products. Forest products, total	20 19 67 61 22	.12 27 27	. 20	373, 147	144, 335	172.8M	148.014	00.0	100.8	142	209 349	ĪLO	7.8	1,487	J, 323	2,915 2,010 888	i, me	j. [0	1.34
Paralturo Lumber, timber, and other mis-	32	.27	.34	40,887 27,048	(1), 943 22, 965	60, 210 27, 113	42, 088 33, 013	99.8	94.0 99.8	1458 149	140		14.5	670	614	1, 207	831 1, 133	1, 60 1, 47	1.74
Lumber, timber, and other mis- cellaneous forest products	28	. 229	. 20	25, 812	18,888	23,196	19,057	89.7	09.1	180	149	13. 2	27. 2	1, 593	1, 520	512	476	8.13	3.37
osliansons forest products Paper and allied products, total Paper: Weiting, book, etc	28 82 17 32	112	1 . 18	25, 912 259,004 25, 767 47, 760	200, 108 34, 178 37, 873	200, 187 10, 170 44, 170	908, 170 35, 185 37, 873	100.0 100.0	90.3 100.6	j 21	123 123	10.8 11.1	17.7	1,004	1.402	1,867 1,573	L 724	1.86	2.05 1.60
Was paper Paper boxes and other paper	52	;ie	. 20	12,700	37,873	2700	37, 873	ioù ò	100.0		188	25.8		1,400	1,017	3,671	3, 102	206	3.31
Paper boxes and other paper products	_ 5a	, 11	. 17	l				L	00.0	178	200	10.B	12.7	1.784	1,708	1,640	1, 477	3.41	1.63
products Printing, publishing, and shied industries		, 42	ı	,		! '	·				20	1		_,		٠	ı	2.90	1.20
Industries. Chemicals and allied products,	127		· ·	'					'		ı		•	l i	314				
total. Pharmaceticals and proprie-			ı		· '			OF Z	'		I		177	l i					ı
	28 62	. 24 57	. 10 . 15	28,056 56,127	35, 120 48, 946	38, 850 56, 486	35, 282 49, 561 57, 736	90. 8 67. 6			108 108	流	20. 8 28. 2 19. 5	123	161 422	7, 983	6, 020 1, 843 6, 373 35, 926 1, 200	1, 33 2, 46	1.56 2.49
Paints and variables. Other chamical products. Petroleum products.	37 19	. 20	. 4.5 . 22 . 21 . 24	56, 127 106, 189 429, 527	87, TA	108,701	87, 736	100.0 02.5	100.0	152	49 54	21.1	10.5	450 588	372	4 (1)	8,373	2.17	1 2.10
Bubber products	1 18	1 .11	1 2	18, 121	35, 570	19, 519	l lande	90.0	1 30.1	100	161	12.8	12.6	1, III	. 201	1, 537	1,00	1.65	1.51
Boots and about	78 24	. 16 . 17	1 : 15	158,500 04,364	00, 171	158,085 08,009	1945, 2840	98.4	58. 34.		291 360	9.1 8.5	8.1 3.5		1,778 1,803	1, 017 1, 460		2 05 1 65 1 49 1 62	1.29
Leather: Tenned, ourried, and finished	82	. 15	. 10		I -		64, 505	1		461	431	0.7	10.8			436	121	. ne	ı
Other leather products	21	. 17	ii: i	11,112	84,550 8,020	11,210	8,728	04.0	98.1	777	77	22.7			3812		1,316	1.01 1.00	1.00
etipo, essy, and gass handran.	. 43	. 25	.90	113,999	64,002	115,000	05, M	06.1	89. 2	279	210	J 1228	10.0	J, #34	2, 762	034	877] 1.00	2.02
total lituminating placeware (glober, shades, etc.)	10	. 21	. 2:	11,068	0.630	11, 121	6,606	09.3	20.5	79	111	6.4	ه ا	164	674	L #40	1.211	2.15	2,00 2,00
shades, etc.). Other stone and plass products, trop and steel and their products,	42	. 21 . 26	11.	102,046	8,630 67,280	105, 937	88,087	00.0		252	342	12.6	17.5	2, 320	2,000	L #47 897	1, 211	1.00	2.00
TOTAL	147		.09	374.07	288, 207	877, 084 97, 084	200, 63	90.5						1, 097 920	1, 316 740	1,000 2,430	1, 101 2, 201	. BC	.09
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Other Iron and steel products Nonferrous metals and their prod-	29 111		:8	20,500 120,216	290,977		24,670 241,475			157 220	160 160	29. G		1, 284 1, 903	1, 666	1,636	1.2	1.73	7.01 .86
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portation equipment, total Biostrioni machinery, appera-	200	.10	.24	080, 294	507, 744	071,901	576, 794	98.1	10E-1	810	340	11.4	13.0	2,022	1,886	1,641	1,630	1_23	1,48
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oznar memmory, apparatus,	9 330	.#	. 61	200,931	177,740	200, 192	179,000	96.0	99.1	800	354	7.7	8.4	1, 374	1, 20	1,366	1, 283 805	1.67	I.84 2.25
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crease of 7.2 percent was far in excess of the one-half of 1 percent rise in the gross charge-off reported by wholesalers.

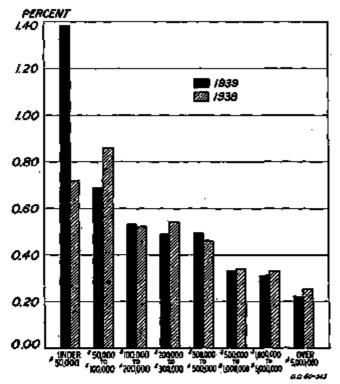
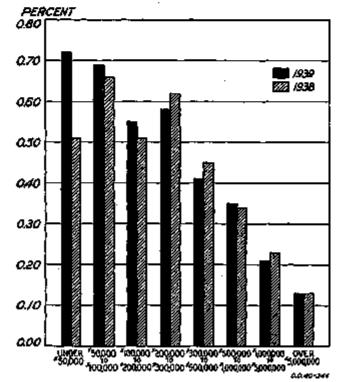


Figure 6.-Bad-Debt Loss Percentages of Wholesplers by Sales Size Groups.



Pigure 7.—Bod-Dobt Loss Percentages of Monufacturers by Sales Size Groups.

In addition to the relatively large percentage increase in manufacturers' gross losses, their recoveries on accounts previously charged off were down 10.2 percent from \$1,318,000 in 1938 to \$1,183,000 in 1939, a percentage decline which also exceeded the 5.8 percent drop in wholesalers' recoveries over the same period. As shown in table 2, manufacturers' recoveries in proportion to gross losses averaged 17.2 percent in 1938 and 14.4 percent in 1939, or between 5 and 6 percentage points below the proportion of wholesalers' recoveries to gross losses in the same years.

Deducting recoveries from gross losses gives net baddebt losses of reporting manufacturers totaling \$6,343,-000 in 1938 and \$7,030,000 in 1939, a rise of almost 11 percent. The 12 percent increase in manufacturers' net credit sales, however, served to hold the loss ratio for 1939 to the previous year's figure.

It may be seen from table 2 that, while the average bad-debt-loss ratio for all reporting manufacturers remained unchanged in the past 2 years, loss percentages in many of the individual industries showed considerable change, with increases in some lines balancing decreases in others. The arrangement of broad industry groups according to losses sustained brings out no definite pattern with respect to durable and non-durable goods or other classifications of industry. The iron and steel industry was lowest, with losses of less than one-tenth of 1 percent, followed by the nonferrous metals, food, paper, and motor-vehicle parts industries. Highest losses were found in the printing and publishing, chemicals, and forest-products industries, which averaged losses of three-tenths of 1 percent, or more.

Including the subgroups, liquor manufacturers experienced the lowest relative loss in both 1939 and 1938. This may be due to the fact that many of their customers—distributors in those States governed by laws compelling wholesale sales for cash only—readily convert goods into cash which can be passed on to the producer, or it may result solely from the large size of their average account. Wineries, on the other hand, had the highest bad-debt-loss ratios in both years.

Credit managers may find helpful, for purposes of individual comparison, the figures in table 2 showing, by industries, the proportion of credit sales, average number of accounts per firm and proportion written off, average gross loss per account written off, and proportion of recoveries to gross losses.

Recoveries made by manufacturing jewelers are noted as extremely high, averaging over the 2-year period about 50 percent of the amounts written off as bad, while the average manufacturer of boots and shoes recovered only 4½ percent of the gross charge-off over the 2-year period. As previously noted, the average recovery for all manufacturers was 14.4 percent of the gross charge-off in 1939 and 17.2 percent in 1938.

Analysis of Losses by Size Factors.

Wholesalers.—Figure 6 and table 3 reveal a characteristic inverse relationship between bad debts and size of business, with the largest losses being incurred by

wholesalers with the smallest sales volume, and the ratios declining progressively with each lower sales-volume group. A probable governing factor is that the larger companies have more complete credit departments and are in the most advantageous position to select as well as supervise their credit risks.

Figure 6 indicates that wholesalers in the lowest annual sales-volume classification, sales under \$50,000, almost doubled their average loss per dollar of credit sales last year, with the ratio for the group advancing from 0.72 percent in 1938 to 1.38 percent in 1939, the highest ratios recorded. Ratios for only a few kinds of business in this lower sales classification could be shown in table 3, but in the majority of them a sharp advance in the loss percentage is noted.

Two more of the eight size classifications, representing wholesale firms with annual sales of \$100,000-\$200,000 and \$800,000-\$500,000, averaged slightly higher losses in 1939. Elsewhere, moderate decreases are shown, except in the \$50,000-\$100,000 sales group, where the ratio dropped sharply from 0.86 percent in 1938 to 0.69 percent in 1939, in contrast with the much higher losses averaged by firms with sales under \$50,000. For both groups of firms with sales under \$100,000, results may be conditioned by the comparatively small size and limited distribution of the samples.

When bad-debt losses of wholesalers are grouped according to size of credit sales per account (fig. 8 and table 5) the resultant pattern is similar to that for the sales-size groups, as demonstrated in figure 6. Firms averaging \$250 or less per account reported the greatest loss, with the loss ratios declining for each successive increase in average size of account. All except the highest account classification, where the ratio remained unchanged at a point considerably below the general average for all wholesalers, showed reduced average losses from 1938 to 1939.

The diminution of bad-debt losses with increasing size of business and size of sales per account was further borne out by the cross classification of these two factors (see table 7). When analyzing each sales-volume size classification according to size-of-account groups, losses were generally reduced as the size factors increased in magnitude.

Manufacturers.—Bad-debt losses of manufacturers classified by sales-size groups in figure 7 and table 4 reveal the same inverse relationship between percentage of loss and sales volume as wholesale establishments. Decreasing loss ratios with each successive increase in sales volume is found to hold true in the principal industrial groups and subgroups in table 4, although in all cases deviations from the general trend are found.

Manufacturing firms in three groups representing annual sales up to \$200,000 averaged higher losses in 1939, with the relatively small group of firms having sales under \$50,000 showing the largest loss ratios and

the greatest increase in the ratio from 0.51 percent of credit sales in 1938 to 0.72 percent last year. A similar sharp advance was noted for the same sales-size group

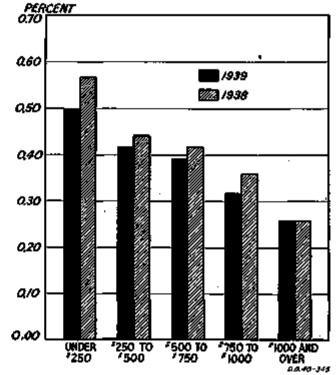


Figure 8.—Bud-Doht Loss Percentages of Wholetelers by Average Credit.

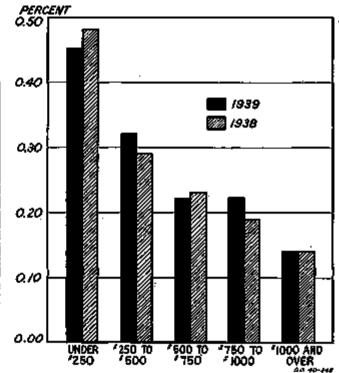


Figure 2.—Bad-Debt Loss Percentages of Manufacturers by Average Credit Sales per Account.

of wholesalers. One other group, including manufacturing firms with annual sales of \$500,000 to \$1,000,000, also increased their average loss slightly in 1939, leaving three groups with moderately lower average-loss ratios for the year, and the largest firms, those having sales over \$5,000,000, with no change in their average-loss ratio.

Although the general-average loss percentage for manufacturers was much lower than that for whole-salers in 1939, it is noted, in comparing the 1939 ratios in figures 6 and 7, that manufacturers in the calcavolume groups from \$500,000 to \$1,000,000 and from \$100,000 to \$200,000 averaged a loss 2 cents higher per \$100 of credit calcs in 1939 than that for the same size groups of wholesalers. Furthermore, comparison of the \$200,000-\$300,000 calcavolume groups discloses that the manufacturers lost 8 cents more than the wholesalers per \$100 of credit calcales last year.

Analyzed according to average credit sales per account, as shown in figure 9 and table 6, loss ratios averaged by manufacturers range from high to low, following increased size of account. As in the comparison for wholesalers, shown in figure 8, firms in the highest account-size classification, which had the lowest average loss, disclosed no change in their ratio from 1938 to 1939. In other groups, however, manufacturers did not reveal the uniformly lower loss ratios shown by the account-size groups of wholesalers, with two of the remaining four groups of manufacturers averaging slightly higher losses in 1939.

In connection with the previous observation that, despite lower general-average losses for all reporting firms, some groups of manufacturers classified by annual sales volume averaged higher losses than corresponding groups of wholesalers, comparisons of identical groups of wholesalers and manufacturers in tables 5 and 6 show that all wholesalers in the size-of-account groups averaged higher losses than manufacturers in corresponding groups.

The arrangement of manufacturers' bad-debt losses in table 7 by size of credit sales per account under size-of-business classifications is a further illustration of the inverse relation of losses to size of account also noted in a similar analysis for wholesalers in that table. In each size-of-account classification it is also observed that there was a progressive tendency for losses to decrease from the small to the large firms. No doubt the underlying cause would be found in the more rigid credit supervision which can be established by firms of larger size.

Comparisons by Geographic Regions.

Owing to the general nation-wide scope of operations, as well as frequent inability to provide data classified by geographic area, reports of manufacturers are not analyzed by region in this study. A regional comparison of the loss experience of wholesalers is shown, however, in table 8.

Proportion of Accounts Written Off and Gross Loss per Account.

In an earlier section of this analysis, it was noted that wholesalers reported a fractional increase in average.

number of accounts per firm last year, while manufacturers, who have double the average number of accounts reported by wholesalers, disclosed an increase of almost 5 percent from 1938 to 1939 in average number of accounts per firm. Increased credit sales in 1939, however, raised average credit sales on wholesalers' accounts from \$666 in 1938 to \$707 in 1939, with average sales on manufacturers' accounts advancing from \$949 to \$1,016 for the respective years.

Wholesalers.—As shown in table 1, all reporting wholesalers charged off an average of 2.79 percent of their total number of accounts in 1939, representing a decrease from 2.89 percent of total accounts in 1938. Perhaps conforming to slightly larger credit sales per account in 1939, the average gross loss on wholesalers' accounts written off last year was \$99, compared with \$98 for 1938.

Manufacturers.—Manufacturers similarly averaged a decrease in proportion of accounts written off from 2.13 percent of total accounts in 1938 to 2.04 percent in 1939. However, with about the same average increase in credit sales per account as was shown by wholesalers, manufacturers' average gross loss per account advanced to \$100 in 1939 from \$94 in the preceding year. The higher average gross loss per account reported by manufacturers reflects, of course, the fact that, despite a smaller proportion of accounts written off in 1939, manufacturers' aggregate gross losses gained more than 7 percent last year, whereas wholesalers' gross losses were up less than one-half of 1 percent.

Further data on percent of accounts written off and average gross loss per account by individual trades and industries will be found in tables 1 and 2. While average credit sales per account has been noted as an important controlling factor in bad-debt-loss measurement, percent of accounts written off and average gross loss per account may be regarded as significant elements for further study and comparison.

AGE ANALYSIS OF ACCOUNTS WRITTEN OFF

In previous sections of this report it has been noted that the changes in bad-debt-loss ratios from year to year may reflect many types of relative movement in the several factors which enter into their computation. As an example of what may occur with no change whatever in the absolute dollar amount of the gross charge-off from one year to the next, variation in the magnitude of recoveries, or a normally anticipated change in credit-sales volume, will produce entirely different loss ratios between the two years. Without citing further illustrations, it may also be said that there are a great many combinations arising from relative changes in the magnitude of sales, gross losses, and recoveries, which can produce identical loss ratios.

This points to the fact that comparisons of bad-debtloss ratios, while representing generally accepted-rule-of thumb guides for loss comparisons, are apt to be misleading unless each ratio carries with it a full explanation of its basic components. Individual business firms cannot safely compare their own bad-debt-loss results, expressed in standard ratio form, unless they have all of the supplemental facts expressing percentage change in credit sales, gross losses, and proportion of recoveries.

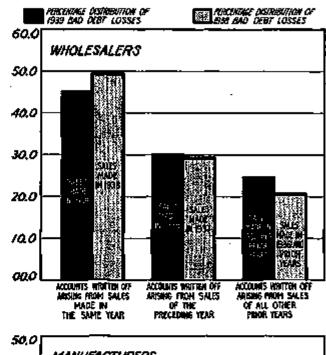
An additional element which is even more disturbing than those noted above with reference to standard bad-debt-loss measurement, is the factor of the composition of the total annual charge-off which, minus recoveries, is computed as a percent of the credit sales of the same year for determination of the loss ratio. The question is, What relation do accounts written off in a given year bear to the actual sales of that identical year? The assumption seems to have been that the relationship is precise, but the facts presented in this analysis do not contribute to that view. Rather, they disclose a fundamental weakness of loss-ratio computation, and indicate that such ratios are more an expression of practical convenience than a sound analytical method.

Briefly, the analysis for 1,890 wholesalers in figure 10 reveals that only 45.2 percent of their gross charge-off in 1939 can be attributed to the credit sales of that year, against which the loss ratio is computed. For 1938, 49.7 percent of wholesalers' gross losses arose from sales in the same year. Average figures for 1,319 manufacturers, also shown in figure 10, disclosed an even lower proportion of the charge-off, between 23 and 35 percent, which could be allocated in 1938 or 1939 to current credit sales.

The indication that wholesalers take more rapid action than manufacturers in the write-off of accounts probably may be attributed to conditions of greater relative mortality among their retail creditors. It should also be noted that the data for both wholesalers and manufacturers show that a larger proportion of the 1938 charge-off is attributed to sales of that same year than is found to be the case with the analysis of currentand prior-year distribution of the gross loss for 1939, despite the fact that there was some increase in the absolute amount of the gross write-off of both wholesalers and manufacturers in 1939. This may indicate that there was delayed action until 1939 in the chargeoff of bad accounts acquired under the rising business conditions of 1937 and prior years, thus raising the proportion of the charge-off representing accounts more than 2 years old (i. e., accounts representing sales of 1937 and prior years) and lowering the proportion of the current-year (1939) charge-off.

Considering the factor of age of accounts charged off, as well as the other variables which form the basis of bad-debt-loss ratios, there is abundant evidence that these convenient loss indices are extremely

deceptive. To secure an accurate bad-debt-loss percentage of sales for a given year would require delay in computation until all accounts arising from sales of that year had either been collected or proved definitely to be uncollectible. This might mean that corrected loss ratios could not be computed for a matter of years, or until the last accounts were charged off and final



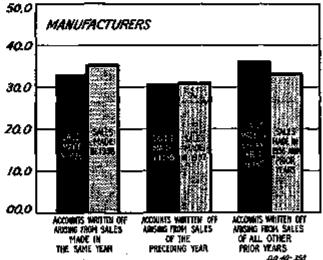


Figure 14.—Age Analysis of Accounts Written off by Wholesalers and Manufacturers, 1939 and 1938.

recoveries made on accounts which gradually worked out after a write-off.

While perhaps a practical device from the accounting standpoint, the present standard method of carrying forward recoveries and delayed account write-off for computation with unrelated current-sales and current-loss figures leads to the utmost confusion as to exactly what comparative values the consequent loss ratios may have. Granting that the availability of figures on the various elements which compose the loss

ratios will be determined largely by expedient accounting methods, perhaps a practical solution for the future is to base comparisons of bad-debt-loss experience on changes in the absolute magnitude of separate items now entering into the ratio computations, but leaving the ratios as merely incidental elaborations.

CREDIT TERMS AND BAD-DEBT LOSSES

It is almost axiomatic that progressive liberality in credit granting is productive of higher losses. If it

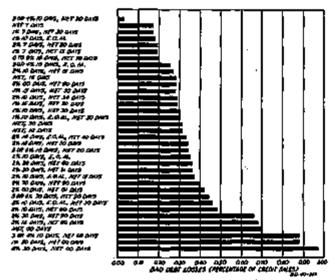


Figure 11.—Range of 1939 Bod-Debt Louses of Wholessiers, Grouped According to Credit Terms.

were not for the factor of credit management, this would probably be so self-evident as to require an elaborate statistical preparation for measurement. However, accepting credit management as an element in the problem, the present study sets forth data relating bad-debt losses of wholesalers and manufacturers to the credit terms which they usually offer to their customers.

Basically, credit terms are made up of three factors, which, for the purposee of this study, are designated as (1) cash discount extended, (2) time in which cash discount may be taken, and (3) time at which net amount of invoice is due. In the tremendous maze of arrangements of credit terms reported by more than 2,200 wholesalers, it was possible to classify within reasonable limits a total of 128 separate arrangements of credit terms, only 36 of which were reported by a sufficient number of firms to be of use in this study. The remaining 92 wholesalers' arrangements of credit terms were reported by only one to three firms, or could not be classified. Classifications do not take into consideration extra dating granted by some concerns, nor do they provide for any other than the terms most frequently granted by a firm (i. e., "usual credit terms" were reported). Despite this great diversity, the six terms most frequently used were employed by more than one-half the reporting wholesale concerns,

Almost 1,500 manufacturers reported a total of 109 separate arrangements of credit terms, of which 31 were reported by a sufficient number of firms to be used in the tables. The remaining 78 arrangements were represented by less than four firms, or could not be classified. As with wholesalers, despite the multitude of terms, the three arrangements used most frequently were amployed by more than one-half the industrial companies submitting such information.

Range of Losses by Classifications of Credit Terms.

Considering the composition of credit terms as an abstract matter, the most evident measure of conservatism or liberality is the maximum period permitted for payment of the net invoice, after which date pressure or penalties may be applied to force payment. The cash discount, and the period in which such discount can be taken, may be viewed as in the nature of secondary inducements; although they, too, may express either conservative or liberal tendencies. As an illustration, 90 days net in a particular industry may be relatively liberal, but from one point of view the net period appears progressively more conservative if a cash discount is added for the sole purpose of inducing more rapid payment. Likewise, in the same case, shortening of the period in which cash discount can be taken is a further evidence of conservatism where such action is applied to hasten payment. But where these

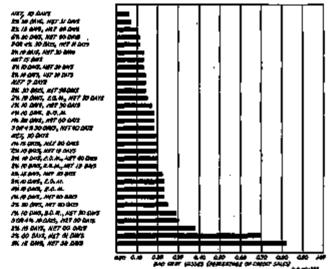
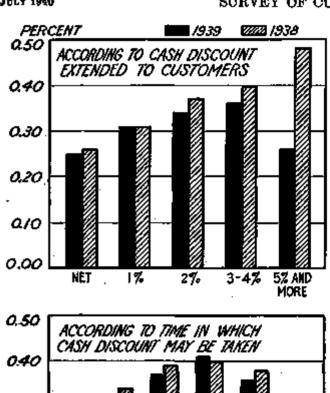
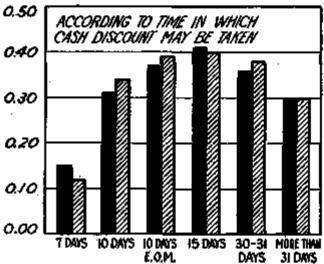


Figure 12.—Range of 1939 Bod-Dobt Losses of Manufacturers, Grouped According to Craffe Terms,

secondary features do not actually contribute to more rapid collections, the extended net periods, plus high cash discounts and protracted periods in which discount can be taken, run to the opposite liberal extreme.

It must be granted, however, that the complex of arrangements of credit terms cannot be examined in a vacuum. Terms in real use may not only reflect evaluation of credit risk, but they may also reflect the desire to promote sales under conditions of severe





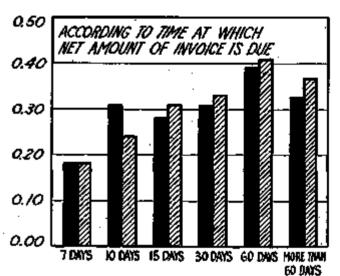
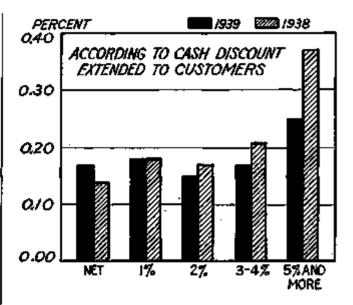
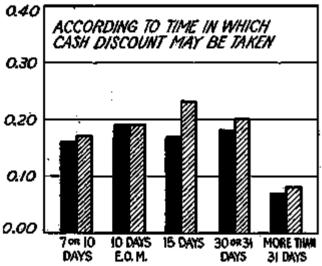


Figure 13.—Bad-Debt Loss Percentages of Wholesslers, Classified According to Gredit-Term Factors.





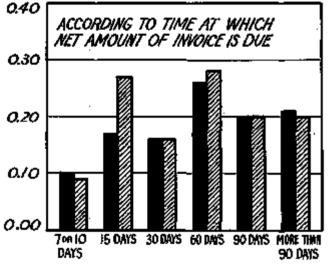


Figure 14.—Bud-Debt Less Percentages of Manufacturers, Classified According to Gredit-Term Factors.

Table 3.—Proportion of Bad-Debt Losses to Credit Sales of Wholesalers, by Kinds of Business, Classified by Size of Establishments, 1939 and 1938

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	ber of reports	1939	1038	Num- bor of reports	1030	1935	Nom- ber of reports	1334	1938	Norm- ber of reports	1989	1038	Number of reports	1870	1038
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Rataller-cooperative wholesale grocers. Specialty-line wholesale grocers. Boar Wines and apprincess liquors.	10 2	(f) 44 (f) 44	(i) (i)	28 6 I	, 163 76	.72 .83	15 3 2	8	1.66	7 2	1, 70 ()	(9)
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To(a)	262	<u> 40</u>	.54	145	. 52	.62	196	.00	.80	87	1.33	.73

i liad-debt-loss percentages not shown for samples of fewer than four firsts.

Multiple-part tirms which could not give break-downs by boness are included in grand totals but not in six-group classifications.

competition. From the latter angle, higher cash discounts with the objective of promoting sales represent increasing liberality, and not conservatism in the interest of promoting collections. Consequently, with terms of payment in some measure expressing an appraisal of credit risk in the interest of collections on the one hand and a sales-promotion device on the other, it would be virtually impossible to array all combinations of credit terms, from conservative to liberal, to indicate the precise importance of each of the three components within each combination of terms.

Recognizing these complications and the fact that this study seeks only to determine any possible connection between losses and credit terms, the obvious alternative is to array average losses from high to low by groups of firms having uniform terms to see if there is any consistent tendency in the terms as the losses progressively increase. This arrangement for wholesalers is shown in figure 11 and for manufacturers

in figure 12, based upon data presented in tables 13 and 14.

Neither of these presentations provides sweepingly conclusive evidence of a direct and progressive relationship between liberality in one or more of the terms components and the range of losses from low to high brackets. To a noticeable extent, however, and purticularly in the data for wholesalers, the highest loss groups suggest a long net period as a basic factor, and possibly liberal time permitted to discount. Conservative terms are also noted at the low loss range for wholesalers, but fairly liberal terms are found in the corresponding loss range of the data for manufacturers, for whom the relation between terms and losses is by no means so well defined. Possibly a clearer case for high losses resulting from liberal terms, and vice versa. could be shown in this type of analysis by securing larger samples than are given at present for many of the groups of both wholesalers and manufacturers.

Table 4.—Proportion of Bad-Debt Losses to Credit Sales of Manufacturers, by Industries, Classified by Size of Establishment, 1939 and 1938

	Total) भ्रमी हा	an pe				Spe tro	ops (ba	ed on to	(a) sales !	or 1989)				
Industry	Num-			\$6,00	0,000 mad	OV OC	\$1,000,0	100 ta \$6,	000,000	\$500,0	to \$1,0	90,000	\$300,0	100 to \$50)000 p
	por of	1999	1988	Num- ber of roports	1630	1998	Number of reports	1939	1988	Num- ber of roports	1999	1929	Nom- bar of reports	1838	1988
ood and kindred products, total	373 1 56	0.14 .19	0, 12 , 21	整	L 11	0.09 31.	91 35	0.20 ,18	0.21 .17	88	0.40	0.22 - 10	44 23	0.49 .45	C.
Maur, coresis other grain-wall prod-	29	.20	.23				L2	.14	. 27		Ø.,	(°) (ú)	a	(9)	(0)
Mest packing Distilled liquest	23 24 10 29 19	.20 .18 .08	.18 .01	7	:#;	. 12 . 01	11 8	018	, 18 (i)	6 1 2 20 20	(1)	(r) ²⁸		333333	88
Lfult Hannis	%	. 27 72	. 17	8	6	(0)	اقا	22 22 22 22 22 22 22 22 22 22 22 22 22	(1) .95	ļ <u>ā</u>	8	8	1 2	M	8
Wine Other feed products. Other feed products. Clothing, mon's, except hats.	110	. 12 17		18	. 10.	.00	ai	:20	ı,	20	14	14 197	12	30	` <u>`</u>
Closhing, mon a, except hists	110	:80	:#	173	(9)	(i)20] 16	:#	. 10 . 23 . 30 . 29 . 15 . 20 . 24	1 6	14 .57	. 57	13	. 62	<u>.</u>
Enit cood	122	. 80 . 28 . 17	:32	***************************************	···(i)	(i)	:	.22 .20	. 29 . 28	8	. 35	. 36		. 40	
Other textile products	87 61	. 12 . 27	30	12	(10	(a)	14 10	10	10	3	<u>.</u>	.17 .41 .52	11	. 67	:
Famitura Lumbar, timbar, sad other missel-	ži	.25	:26				47			1 <u>8</u> 13	. 24	:52	10	. 79 . 40	:
Inneout forest products	28	, 25	.26 ,18	وً ا	(9) m	(0)	3	(i) (ii)	100	5	. 17	, III , 29		1.86	Ι.
apor and allied products, total	28 82 17 12 58	. 25 . 19 . 10 . 16 . 11 . 43	115 111.	녆	(1)	0)12	12 12 12	n)12	(1)	10 5 8	. 94 . 05	. 29	ļ tģ	ώ ≃	Ι,
Wax paper Paper boxes, and other paper products, rinting, publishing, and allied inducties, berniculs and allied products, total Phermocuticals and proprietary med-	12	16	. 1.6	Ī	8	8_	ļ <u>.</u>	0,17	. 17	Į	0)	(1)	į	8	8
rinting, publishing, and affied locastries.) 68 54	143	. 35		, 11	. 12	1 7	.00 43 35	.16 .18	30 27	. 44	. 36	7) 23 34 . 15	1 :
hemicals and allied products, total Pharmaconticult and proprietary mad-	127	. 31	. 20	7	, 13	. 19	27	. 36	.12	27	.69	. 62	19		
idipes	28	. 24. 57	.90 .45 .22 .31	2	- 8	8	18	. 20	.27		. 20 . 62	- 17	111	(i) :50 :65	(0)
leines. Paluis and varaintes. Other chamtes) products.	#3 #7	20 24	22	1 4	1 1	16 23	1#	20	:36	14,		, 65 20	11	:68	1 :
nbber products	10 10 1	.14	:34	10	. 24	. 23	6 7	:15.	:14	I I	- 8	8		(4)	**********
eather and its products, total	13 78 24	. 16 . 17	.18 .18	7	(0)	(1)	23 11	20 51 20 15 14 22 88	.37 .36 .30 .04 .12 .29	23 11 8 4	(E)	`.'25 .'36	1	43	I I
Boots and shoes Leather: Tenned, curried, and finished, Other leather products	33	. 15	:19	í	18'.'	1716	դ	្តវិធី	25	"\$:30	.17		- 8	8
cons. clay, and place products, cold	21 63	. 17 . 26	. 18 . 18 . 20	i-	····65····	@i	2i	(1)	(4)	13	.11	.27	ë	. 60	
Diuminating glassware (globes, thades, reflectors, etc.)	10		,32] ''	١ ''	1 7	. 10	. 22	2		m	1	(1)	l (a)
Othor stone, play, and glass products	R3	:21 :25	.]∎	i	(1)	(O_	1 12	. 20	.34	11 81	(i) .38	(i) (i)	1 7	∵ 54	"
ve and stool and their products, total Hardware	147 14	.00	.08	15	(0)	0	52 6	. 14 . 22	.12	1 ²¹ 3	(i) 18	()29	20	(i) ¹⁰	0
Stoves, remees, stoom needing socs-	99	98	902	1	0	(0)	8	. ĝL	. 25		(0)	,	2	• (0)	i)
Other from and steel products	22 111	:25 :07	. 28 . 06	1 1\$	`.'os	.03	28	:ii	.07	16	12	(f) .83	17	. 18	J ",
onformus molais and their products,	58	. 18	. 10	7	.12	.03	13	. 19	.25	14	. 22	.39	1	.29	
Other nonterrous metals	28 30	.10 .18 .16	. 06 . 18	2	0,13	(¹) . 06	7	. 17 . 20	. 25 . 13 . 85	9	. 22 . 27 . 19	.33 .31 .33	1	(i)	(1)
animory, upt including transportation	200	10		18				. –	.83	20		l			۱'`
equipment, total Electrical machinery, apparatus and			-24	_	.14	.20	63	. 22		l 1	. 24	.24	30	.35	
P1+0 P.	ýa	.02	. 12	10	-06	.10	3.5	. 18	. 17	36	. 85	.19	12	.18	
Dies.	110 27	. 22 . 13	, <u>51</u>	8 2	6)51	68	31	. 25 . 12 . 17	. 18	23 6	. <u>18</u>	. 27	18	. 56	
Other mechinery, apparatus, and sup- plies. Inter-vehicle perts. (Iscallencous (admitties.	ดัน	:18	. 18 15	"	'''as	(i)	10 20	:17	. 18 . 15 . 16		. 40 . 61	. 27 . 13 . 54	13	. 16 . 35	
Total.		. 17	-17	141	. 13	. 13	451	. 21	. 23	297	. 85	.14	189	.41	_

[·] Bad-debt-loss percentages not shown for samples of fewer than four firms.

Table 4.—Proportion of Bad-Debt Louses to Credit Sales of Manufacturers, by Industries, Classified by Size of Establishment, 1939 and 1938—Continued

-					Spe Stool	se (based o	u total sale	s of 1929)				_
Industry	£200 ,	00 # to \$3 00,	,000	\$1.00,	000 ta 6200	,000	\$50,	000 to \$100,	,000	V	ader (\$ 0,00	<u> </u>
	Number of re- ports	1939	1938	Number of re- poets	1989	1938	Namber of re- ports	1934	1936	Number of re- ports	1636	1988
ond and kindred products, total. Contectionery Flour, oversit, other grotn-raili products. Ment packing	78	4.7t .38 (1)	0, 61 (1) ²⁴	49 36 1	0, 42 .89 (r)	0.64 (1)	26 17 1	0.59 (P)	0,76 (1) ⁷⁶	19 16	0, 43 .49	0.29
Distilled liquers. Mail liquers. Wins. Other food products. Facility and their products, total. Ologiality, materia, except hots.	4 8 11 1	(1) 1.66 2.86 47 .00	(°) 1.00 .55 .54	92 189	3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3	58 58 42 19	33 36	8) 8) 8)	() () () ()	1 8	- 83	8
East goods. Ciber taxile products. bress products, total	-	.60 .64 .89	.30 .80 .83		1.93 (1)	1. 46 (i)	**************************************	(f) (f) 1, 23 (f)	3.3			(1)
Lamber, timber, and other miscella- psous ferest products.	3 5 1	(r) 18	(1) (1)		t. 70 07 (1)	1.6	8	(9) ta	0 9	1	8	65
Wat paper. Paper boxes, and other paper products. Paper boxes, and other paper products. Physical publishing, and ellied industries. Chemicals and allied products, botal Pharmaceuticals and proprietary medicines.	10	. 15 . 82 . 94	.07 .45 .65	123	.10 .20 .00	.11 .65 .83	9	. 84 (0)	(1) 88-		, jé 2.25	1, 0 .9
Paints and vernishes Other obemical products Chine products Chine products Anther products Anther and list products, total	- 6	() 73 () 73	(i) as	10 4 1 2 7		76 73 31			(1)	\$ 3 1	\$3 \$3	(S) (S) (S)
Boots and stock		(n) (n)	.24 .17 .49	2 8 0	(1) (29 (3)	(1) (1) (28)	<u>-</u>	(1) 70 (1) 77	(i).80	1	88	()
Officer stone, clay, and glass products one and stoel and their products, total	. 6 12	(°) .00 .80	(1) . 34 . 52	2 7 18 1 1 2	(n) 1, 14 (n) 49	(1) .50 .20		(i) (i)	6) ₂₃	2 6	(i) (i)	(i) 2.1
Stoves, ranger, steam heating apparatus. Other from and steal products. Forestors metals and their products, total. Jowelry and jowelers supplies. Other monterous motals.	48.49	(3) (4) (5) (5)	.71 .41 (1) (1)		(i) :24 :75 :74	(F) (F) (F) (F) (F) (F)	<u>.</u>	22 22 23	88	3 1	388888	533333
dechipory, not including transported or equipment, total	11	.76	.se	28 11	. 43	.39	4	, in (i)	1.99 (0)	7	139 149	.; .;
supplies Other machinery, apparatus, and supplies Other which parts Other which parts Alscollaneous industries	8 6 3	. 53 (1)	1.18 (°)	15 3 6	(4) 66	ල. න	1 2 5	ტ. #1	2.93 (1) 36	3	(t) . 16	(1)
Total	122	, 58	. 62	177	. 545	.53	87	.69	.86	略	,72	,

I Bed-debt-loss percentages not shown for samples of fewer than four ficture.

Analysis of Losses by Individual Terms Factors.

An analysis of bad-debt losses by groups of wholeealers and manufacturers classified according to each of the three elements composing terms is presented in figures 13 and 14, which are based on the data in table 15. The two sections of both charts which classify losses according to each discount and according to period for payment of net amount of invoice reveal, with some imperfections, a tendency for larger losses to follow higher each discounts and longer terms.

As terms arrangements quote both discount and net period, it is evident that both factors cannot be dominant. Presumably, therefore, because of similarity in the scaling of losses in the classifications for each factor, the charts disclose that when one of these two factors is liberal, the other is also inclined to be. However, in the center sections of the charts, presenting losses classified according to time in which discount may be taken, the groups do not follow the loss trend visible in the upper and lower sections. Consequently, it may rea-

sonably be assumed that this particular element can be more readily eliminated as a factor controlling losses than either of the two remaining components of terms.

In the wholesale data, there is indication that up to a certain point increased losses reflect progressive liberality in all three factors, but this is scarcely evident in the data for manufacturers. Beyond a 15-day period allowed for discount, it would appear that the more liberal limits of this element are associated with relatively conservative cash discounts and are probably fairly close to the final net periods of individual terms arrangements. Supplementary information on this problem is presented in tables 16 and 17, where terms are listed under each industry and trade according to prevalence of use.

Importance of Credit Management.

In the main, the relation of credit terms to bad-debt losses indicates that, although liberality in terms is a definite factor contributing to losses, it is not an uncontrollable factor. If credit terms were dictated wholly by the desire of the customer or in the expedient interest of sales promotion, much more clear-cut evidence of progressively higher losses with each successive move away from conservatism would undoubtedly be shown. In contrast to this, the less precise relationship found in actual business is unquestionably the result of credit

management and the constant supervision of accounts to make credit terms conform to appraisal of risk. The possibilities inherent in credit management are such that the wide scale of terms arrangements need not produce any more than the irreducible minimum of losses at one extreme or the other, for each of the multitude of terms arrangements could be adapted to its appropriate use.

Table 5.—Proportion of Bad-Debt Losses to Credit Sales of Wholesalers, by Kinds of Business, Classified According to Average
- Credit Sales Per Account, 1739 and 1938

																		_
							AW	ub es c a	edit sa	des per s	occontr	(base	d on 199	9 Ogur	es)			
Einq of princes	Total	of all g	rétips	\$1,0	d devera DO de sa DOCOL	oro	from \$	8 Byers 759 to : 19000U	0,000	from	S BYETS \$500 Id r eccod	\$700	(rom :	9 8 Ten 1250 La 1 Secon	4500	102	8 avers der \$20 80000	50 T
· · · · · · · · · · · · · · · · · · ·	Num- ber of reports	1889	1938	per of	1989	1938	Num- ber of reports	1920	1988	Num- ber of reports	1989	1928	reports per of Num-	1939	1888	Non- ber of reports	1889	1938
Automotive supplies	20 20 20	0.58 -18 -34 -82 -88	0.88 .20 .27 .82 .41	1 6	9.89 (C) 11.28	6.27 120 120 120 120	B I	3 8	0, 44 (1)	1,00000	35.835	88888888888888888888888888888888888888	04 4 19 12 12	28 28 28 28	0.00 .80 .47 .80	05 0 10 22 0	0. 54 . \$4 1. 2L . 80 . \$2	0.77 .20 3.30 .00
Cool. Drage and drug sandriet. Without liquor department. With liquor department.	61 11	.35 .28	:34 :31	10 10 31 31 31	.M	17 44 51 29 29	14	825 P82	20 20 ()) 1 18	933	SSS 8	7 6 22 83 21	849.48	.89 .02 (1)	1	. 15 13	,4(,4(,4(
Dry goeds Blootrical goods Parm products (common goods) Dairy and poultry products Tream fruits and regetables Furniture and hepselmruishings	105 317 89 14 75	411247118888	31 24 25 14 82 33	76 29 15	252412010334 ₀ 3	, (2)	11 27 17		. 42 40 40	19 10 8 18	. 16 . 15 . 13	.46 (0 48	2 9	(3) (f)	.44 .23 (i)	37 14 18 2 7	80 83 33	.51 .70 (+)
Meats and rest products Agate and feet products And they wholeste green You have wholeste green You have young wholeste green	56 480 246 710	.30 .32 .33	.33 .40 .25 .33 .30	16 36 240 118 88	.24 (1) .22 .26 .88 .26	28 (1) 23 24 27 28 26	78 28 215	8858888	. 50 . 50 . 50 . 50 . 50	12 8 80 34 13	# # # # # # # # # # # # # # # # # # #	.31 .28 .82 .41	50 6 50 50 50 50 50 50 50 50 50 50 50 50 50	51 70 44 51 58	. 10 . 10 . 10 . 10	14 36 1 85 9	446.686	. 86 (9) (9) (9)
Retailer-cooperative wholesale grocers Beer Wines and spiritums liques Hardwitz group Cotarel angleses	108 14 10 402 133	100 100 100 100 100 100 100 100 100 100	.35 .84 .89	17 17 18 18 8	90 (54 44 30	25 (1) 26 28	8 2 53 19	825 44	57(1) 88 8 (1) 80 8 8 (1) 80	2268827927	Hackey Ser	0.880.88	27 8 186 4	38888888	.36 .22 .36 .37	25 1 85 22 11 45	÷8886€3	
Heavy hardware Industrial supplies Plambing and heating supplies Loweler Loweler and hallding materials Machinery, equipment, and supplies, except	168 88 30	.16 .40 .56 .50	20 51	29 88 0 18	.61 .62 .34 .39	() 2478548 4	13 19 6	ESARC#8888	.00 .11 .40		1.20	.86 .81 .51 1.00	42.00 42.00 43.00		.18 .44 .48 .47	7 8 8	. 55	1000
electrical Borpical equipment and supplies bigsis Paper and its products Petraleum Tobacca and its products Leather and aboc findings	921	. 61 . 18 . 22 . 40 . 18 . 10	.88 .08 .30 .89 .17	17 2 8 18 4	.78 () .34 .29 .16	.09 (1) .80 .46 .14	7 3 0 22	.67 .48	.62 (i) .29	5 11 20	10 a 10 a 16	55.22.58	20 9 3 17 21	80 C P C 2	81 () 44 () 38	16 29 29 3 16	78 45 (C) 10 (C) 23	(f) (f)
Leather and shoe findings. Atisocus account. Total	67	.54 .88	.87 .89	11	.26	(1) -10 -28	288	(i) 82	;;;··· .28	343	.30	.42	12 484	1.18 .40	.20	24 440	. 50 . 50	.90 .60
- UMI	1 2,243	1 ,41	J . 32	- =""	.==	, . 2 5	208	1,42	J . **	***	٠	•••	303	. 12	'"	130	. 60	۱ ''

Bed-debt-loss percentages not shown for samples of fewer than four firms.

Table 6.—Proportion of Bad-Debt Losses to Credit Sales of Manufacturers, by Industries, Glassified According to Average Credit Sales per Account, 1939 and 1938

•	1			1			Aye	rego co	edil m	des por	p-00¢U.m	(D050	d on 105	9 Ogur	ca)			
Industry	Total	of #1) &	roupe	\$1,00	occop 0 or n vacto	nore	Picon from 3 per	ovoje 78) ta s			5 B.Vera \$500 to 600011		from	avers 1250 to	\$500	unde	s avere r \$250 osount	per
	Num- ber of re- ports	1930	1938	Nom- ber of re- poets	1990	1988	Num- bor of re- ports	1089	1038	Num- ber of re- ports	1030	1938	Nom. ber of re- posts	1039	1938	Num- ber of re- ports	1039	1978
Food and kindred products, total	108	0.14 .10	0.13	125 31	0.19 11	0.00	20 13	0, 10 , 17	0, 20 , 10	25 18	0.24	0. 21 . 14	68 41	8. 23 . 21	0.22	112 70	0.40 .50	0.설
Ment packing. Distilled liquors.	24 24 20 20 10	. 20 . 13 . 95	.23 .13 .01	22 22 10	.13 .13 .04	. 29 . 13 . 01	3	8	8	4 	.03 	. 35	a	(t) 	(1) 	9	(9)	(1)
Picur, cereals and other grain-mill prod- outs. Ment packing. Discilled liquora. Mult liquora. Wine. Other lood woodusts. Textiles and their products, total Glocking, men's, except hats. Clocking, women's, except millionry. Kalt scores.	20 10 110 118 20 20	.27 .72 .12 .17 .30	17 93 08 93 29 82	11 22 10 10 42 10 43	284848484	16 25 3 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3	1 11 8 8	(O) 12 13 1 (O) 13 1	6) 13 8 13 8 13 8 13 8 13 8 13 8 13 8 13 8	2000 2000	855885858888	3338 335 F	27 24 8 5 8 15 10	3,688,85	(i) .26 .41 .58 .81	***************************************	- N-38-88-88	C. 2000
Other lexible products. Forest products, total. Furniture Lumber, timber, and other miscellopsons	57 01 33	. 50 . 20 . 17 . 12 . 27 . 27	20 20 30 30	25 28 11	.07 14 23	.#	1 8 4	125	(f) -63 -46	10		:44 :40		88.53.88 88.53.88	.16 .30 .30		(0)	(i) 1.01 (i)
Paper and allied products, total,	28 85	.28 .12 .10 .16	.20 .15 .11 .15	19 41 8 81 81	06 10 16 10	.18 .13 .09 .00 .16	4 7 5 2	. 69 . (4)	.03 .03 (3)	2 2 3	8.69	() () ()	18 6 7	1.0880 2.8888 3.8888	(1) (1) (2) (3)	11 4	3.84 .10	1.31
War raper Paper boxes and other paper products Printing, publishing, and allied industries Obsticate and allied products Pharmasoulcale and proprietury madi- tious	127	.42 .31	.88 .80	16 81	19 14	.23 (0)	2 3 7	(9 (5 34	66	16 10	.81	.44	10 36		. 19 . 36	20 67	.47 .47	20
Phints and varnishes	99 62 37 19 13 76 24 20 21	21 20 20 21 10 17 16 17	22 21 25 18	15 12 6	(1) .84 .18 .80 .18	21 18 14 15 19	3	(0) (0)	.12 (0)	11 4	(f) 1, 10 1, 16 (f)	() () () () () () () () () () () () () (3 16 8 3	E4158	(% :84 :0) (6)	되 17 8 4 2	.64 .71	.45 .47 .89 .99
Bubber products. Leather and its products, total Boots and aboos. Leather: Tennod, curried, and finished. Other leather products.	78 24 83 21	.16 .17 .15	18 19 19 19 20	59 10 31	18 18 11 18 18	18 12 19 02 19	3 3	888	888	1 1	88	333		ES.45 34	27 (f)	19 19 10 10	E#55##	8
Other leather products. Stone clay, and glass products, total Illuminating glasswere (globes, shades, reflectors, oto.)		i	. 20	35 3	as .	(1) (1) (18 (0)	,			1	(I)	.39 ()	3	-	l	3 3 18		(1)
Offier alone, oby, and glass products	1 14	.21 .26 .00 .16 .25 .07 .10	.19 .06 .12	#5 83 4 9 80 80	24 07 112 119	·#	142228784	67 67 (5)	,10 (C) (C) (O)	10 10	ONE TEARER	S48456	19	(9 .86 (1) .24 .63 (1)	(1) .30 (1) .56 .33 .12	18	0) 21 0) 49 12	(1) (1) (1)
Stovet, rought, steam healing apparatus. Other iron and steet products. Non-krous metals and their products, total. Jewelry and lowelend supplies. Other pendurous metals.	- 40	157 101: 101:	.00 .10 .06 .12	80 14 14	.13 .12 .13	.05 .09 .03	7 8 4	(1) (1)	.01 (20 (24	3 0 0	88		110000	.48 .63 (0)	.12 .14 (9)	1 4 5 5 6	. 12 . 80 (1)	(i) (i) (i)
Other penforces metels. Mashinery, not including transportation equipment, total. Electrical machinery, apparatus, and supplies.	200 90	.19	.24	104 45	.18 80.	.23	18 8	.36 ,31	.43 .34	340 LG	.22 .27	.25 .84	27 14	. 27 . 19	,15 .06	21	, 23 , 18	.æ.
napriles Other mactinery, apparatus, and supplies Motor-rebing ports Miscollaments is dustries.	130 37 64	.20 .18	.51 .13 .15	50 17 19	.43 .04	. 55 . 00	10 4 8	. 18 48	.47 .34 .13	16 0	.16 .48 .31	.23 .44 .43	18 8 14	.38 .54	.80 .80 .46	13	.28 (i)	(4) (3)
Total		.17	. 17	636	. 14	.14	121	.22	. 19	174		.28	200	.32		807	.44	.49

[&]quot; Dad-debt-loss paresutages not shown for samples of fewer than four firms.

Table 7.-Proportion of Bad-Debt Losses to Credit Sales, 1939 and 1938

						, Av	otaștă arde	Nt sales	peř sečel	tat					
Sales size groups	Ū	oder \$26	i0	*	150 to \$80	ю	\$1	10 0 to 478	90	\$7.	10 to \$1,0	00	1,14	# () and 0	v et
and only groups	Num- ber of reperts	. 1639	1038	Numb bar of reparts	1030	1935	Num- ber of reports	1029	1938	tebotts per of Mum-	1939	1938	Num- per of reports	LBGS	1938
Wildt.Esar.Bits Under \$50.000. \$50,000 to \$100,000. \$100,000 to \$500,000. \$200,000 to \$500,000. \$300,000 to \$500,000. \$300,000 to \$500,000. \$500,000 to \$5,000,000. \$500,000 to \$6,000,000.	107 51 63 42	3458839	0.75 .99 .02 .55 .74	10 88 114 63 79 79 88 2	3.500018	7:27 = 7.44 (C)	7023333333	0, 67 . 31 . 36 . 63 . 42 . 31 . 33	1.00 .48 .83 .64 .47 .42 .37	3 7 31 32 70 64 7	(f) 0.88 .40 .88 .41 .33 .84	(*) 0,49 - 46 - 34 - 32 - 40 - 38	22 1 4 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(l) 1.05 .43 .39 .55 .31 .27	(°) 1.00 .82 .48 .44 .30 .27
MANUPACTORES) })]]		•]		1]		
Under \$60,000. \$50,000 to \$100,000. \$100,000 to \$500,000. \$200,000 to \$500,000. \$200,000 to \$500,000. \$400,000 to \$500,000. \$1,000,000 to \$500,000. \$1,000,000 to \$5,000,000. \$1,000,000 to \$5,000,000.	34 52 47 20	.84 .64 .64 .63 .63	.78 .43 .60 .60 .48 .51	11 25 47 25 26 27 26 47	.01 .67 .45 .70 .86 .37 .28	11 39 34 62 29 89 22 38	**************************************	287 560 5128 201 201 201 201 201 201	25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 4 13 6 38 34 10 7	() 70 1,65 20 20 1,00 20 1,00 20 1,00 20 1,00 20 1,00 20 1,00 1,0	(*) .16 .32 1.22 .52 .29 .20	4 12 24 38 50 110 278 113	.24 .69 .67 .63 .40 .31 .13	.21 1.10 .94 .31 .04 .22 .22 .10

¹ Bed-debt-loss percentages not shown for samples of lower than 4 fitms.

Table 8.—Bad-Debt-Loss Percentages of Wholesalers, by Geographic Regions, 1939 and 1938

Tobil trailors	Number of Bress	Purcent b to credi	ed dobts t taket
	Of Drives	1939	1935
New Bugiand. Middle Atlantic. East North Central. West North Central. South Alantic. East South Gentral. West, South Gentral. West, South Gentral. Mountain. Pacific.	110 500 453 230 229 100 148 02 317	0, 29 32 , 21 , 25 , 37 , 38 , 30 , 42 , 28	0, 35 31 27 20 30 30 30 40

Table 9.—Age Analysis of Accounts Written Off by Whole-salers, by Kinds of Business, 1939 and 1938

Kind of business	Number of reports	(ur 004 8±0 pAi	tion () sa weit	distri- (1039 e-off ac- o years o soles	bul gro	40 WEI	distri- of 1928 4-00 40- to yests h sales
	Терию	1080	1\$38	1917 orad prior years	1938	1937	1936 and prior years
		·			l		
Antomotive supplies	134	48.8	30.0	17.2	17.1	35.4	17.6
Chemicals	13	35.5	10.7	7.5	#2.9	48.8	<u>89</u>
Paints and varnishes	26	36. L	24.4	20.5	43.2	82.9	. 33. i
hoca	26	59.2	33.8	10.0	65.6	28.6	5.0
Show and other footwar	28	20.0	84.4	ĩč	60.9	36.I	ão .
Opei	- 6	0.1	M. 6	35.4	iš. Ď	20.5	55.5
DUDGE SOO OF SOUGHOUS WINE-		·	l l				1
out liquer department	47	δL.7	20.0	18.7	48.0	29.3	22.7
Drugs and drug sendries with	13	48.6	27.8	26.7	87. D	35.1	26.0
Redirer department.	10	20	30.2	17.6	8.6	29.1	12.8
Dry goods	108	44.5	29.7	26.6	0.1	25. j	16.6
Duley and poultry products		81.7	13.8	1.6	83.1	liõi i	78.6
Fresh fruits and vogetables	64	51. 3	28.8	19, è	47.6	28.6	24.0
Puraiture and beneature is hings i	60	40.0	30.8	29.2	62.0	\$1.6	10.4
Confectionery	17	60.0	10.3	20.7	62.6	1B.0	10.5
Doubertionery Mosts and most products Pull-line wholesale grocers	63 206	47.2	36.1 30.9	26.7 10.7	62.2 67.6	55.2	[2.6
Actinities a second with a second to the contract of the contr		H.4	1 1			23.7	JB.7
Rotalier-cooperative wholesale	104	48.6		29, 2	Q1.3	21.8	25.0
Specially-line wholesale grocers		88.7	33.2	23.1	Ør i	31, 5	5.4
S DEGRENCY-CIDE WITGISSERS \$1000CH-	98 13	62.4 24.7	30.0 29.3	17. 6 54. 0	40.3 30.2	30.4 25.1	14.4 30.7
Moer and spirituous liquers	16	13.2	äil	11.7	07.3	27.5	80.7 5.8
Ospera) hardware	111	12.6		26.4	37.8	й.	25.7
HARVY handprame	91	88.0	δLδ	11.0	30.6	60, 6	10.0 l
Industrial supplies	21 137	#2, i	34.3	83. 0	48.8	34, 5	27.7
Simplified perpeturations of the second contract of the second contr	83	\$7. P	H'S	27,8	40, P]	30,5	26.5
Jamelry	29 37	15.0	50. B	87. \$	7.8	40.8	45.6
Magningy, equipment, and i		39.4	60.5	17.1	35.0	13.8	30.3
supplies	- 58	15-0	30.7	59.7	红. [iF8	67.6
Antikon romborant mo sabbyer	25 18	44.0	13.9 17.4	85. d 18. d	54.4	16.7 40.6	18.4 25.1
Motals	# # F	23.7	49.3	27.1	31.2	(5.2)	20.6
Pokroliozn	1	71.7	17.0	20.4	72.2	il ő i	10.6
Tobecco and its products	10ž	FL 3	21. L	14.6	10.7	31.8	16.6
Leather and shoo findings		ML 0	17. 1	29.0	42.3	10.4	39.8
Miscalisticous	35	9L#	29.2	49. 3	72.6	14.3	12.2
Total	1, 890	45.2	80. 2	24.6	49.7	20.5	20.8
							

Table 19.—Age Analysis of Accounts Written Off by Manufacturers, by Industries, 1939 and 1938

			, , - • ,				
luduatry	Num- ber of roports	gro mu io	LÍOD (88 WEÍT		bul gro cor lo	dom es wei	
		1039	1038	1037 and prior years	1038	1037	1935 and jarior years
Confectionery Floar, cereals, and other grain- mill products Other food products Ment punking Distilled liquic Molt Burser	144	84. 0	34.0	12.0	67.6	34.2	8.0
mili products	21 :	20.0	\$0.6	26.6	28.5	47.3	24.3
Other food products	06	62.1	24.8	13.0	00.8	12.2	l ii.ŏ
Ment packing	22	74.0	1 12 0	12.1	71. T	14.1	0.7
Distilled liquor	22 10 17	24.0	40.2	34.9	37.0	37.5	24.0
Molt Barer	17	100.6	10.7	10.8	68.0	17.8 30.3	23.3
Wine.	16 24	21.6 05.6	40. a 80. 7	37.2 3.7	38.8 47.6	42.7	36. K 0. 7
Clothing, mon's, except hats	"	· • • • •	l ~		14.0		•
	1116	70.5	23.0	6.4	76.0	20.1 20.0	6.6
Kult goode Other textile products	'nП	60.3	28,4	11.3	60.6	29.0	. 8.6
Other texthe products	40 28	44.7	热1	14.0	46.1	34.4 35.8	80.6
Purattare Lumber, timber, and other mis-	40	23.4	42.8	38.8	30.2	***	30.0
oollamoous forest products	24	30.9	35.6	27.6	41.6	44.6	18.0
Poper: Writing, book, oto	17	34.3	48.6	10.3	20.5	58.7	14.7
Wax paper Paper boxes and other paper	12	48.1	22.2	24.7	66.0	4.12	22.5
Paper boxes and other paper	49	10.6	4.7	16.8	39. D	47.2	12.9
products Printing, publishing, and aliked ladustries Printmaconticals, etc.; Drugs.			14.	10.4		71.2	12.7
Industries	47	50.3 26.7	36.8	23.0	47.4	11 6	3L. L
Phormacontinals, etc.; Druga	25	26.7	打多	80.0	30.4	37. 3	20.3
Patura and varnisace	67 ·	27.9	27.9	84.2	37.1	34.6	27.3
Paints sind varnishes Other obounded products Potroleum products	16	38.3	4L3 36.6	20.4 30.4	66.4 10.1	14.4 19.4	10.2 40.4
Robber products	12	8.0 46.0	38.9	ı îi	23.5	12.7	82.8
Boots and shoas	<u> </u>	10.8	34.8	ā. 9	23.5 70.5	29.0	4
Boots and shoas. Leather: Tanned, curried, and					l 1		i
Other latther products	225 18	쓨경	34.1	12.6 12.6	4E I	65.8	T-ú
Stone clay and shop products	48	40.8 27.0	#0.4 32.6	40.4	69,0 19,5	27.0 28.8	4,4 52,7
Stone clay, and glass products. Histoineting glassware (glabos stades, reliectors, etc.)	10	47.0	32.0	440-71	4,01	*0.0	44, ,
attacion, reliactors, etc.)	9	52.3	20. 5	21.2	00.5	20.4	15.1
HANDWIND	H-	29.6	27.0	44.5	22.	28.7	49.1
Stoves and ranges	20	22.6	44.2	32.0	31.1	ap. j	257.8
Other Iron and steel products	102 27	17. á 6L 0	23.9 28.2	52L5	38. 5 18. 5	32.7 45.7	48.8 40.8
Other deniments metals and		45.0	****		30.4	anr t	347.0
their Products	27	10.0	10. I	67.0	25.0	42.8	32.2
Richtifes) was himselv an incatite i							
ond supplies	76	24.5	28.1	47.4	36.2	24.1	40.7
products	97	8.2	17.0	73.0	7.7	12.6	70.7
Motor-vehicle parts.	30	20.0	36.0	35.0	35.8	41.7	22.6
Miscoffe apout	ĬŠ	26.0	41.0	81.0	34.6	38.7	24.8
Total	1, 319	88.0	30.7	88.3	30.3	81.8	29.4

Table 11.—Age Analysis of Accounts Written Off by Wholesalers and Manufacturers, by Size of Establishment, 1937 and 1938

Salss size group	Num- ber of	bat gra eser in wes	lon o Wyw ea		grots write-of so cording to year			
	reports	1039	1928	1937 and prior years	1938	years and prior		
WHOLESALERS Under \$40,000. \$50,900 to \$100,000. \$100,000 to \$300,000. \$200,000 to \$300,000. \$200,000 to \$400,000. \$200,000 to \$400,000. \$4,000,000 to \$4,000,000. \$4,000,000 and over.	291 234 236 385 880	85. 5 \$2.8 \$7.8 \$5. 6 \$45. 0 \$4. 6	18, 4 20, 2 30, 5 30, 6 20, 9 20, 9	45. 2 25. 5 27. 6 21. 6 24. 5 14. 5	57. 7 56. 0 45. 4 42. 6 47. 5 40. 8 68. 0	7.4 82.6 84.5 84.1 28.8 31.1 26.9	21,9 50,9 22,10 22,7 21,6 6	
Vbder \$50,000 \$50,000 to \$100,000. \$100,000 to \$200,000. \$200,000 to \$200,000. \$200,000 to \$2,000,000. \$1,000,000 to \$5,000,000. \$1,000,000 to \$5,000,000.	76 102 113 164 200	35.0 27.2 42.6 58.5 34.6 34.0 37.0 29.1	74, 5 29, 3 36, 5 41, 2 36, 8 39, 8 26, 8	29, 5 42, 5 22, 8 20, 2 20, 4 20, 4 45, 1	35, 6 81, 4 46, 0 34, 2 37, 7 37, 2 39, 5 31, 5	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	83, 2 89, 3 20, 5 87, 3 20, 1 26, 7 28, 1	

Table 12.—Age Analysis of Accounts Written Off by Wholesalers and Manufacturers, by Average Credit Sales per Account, 1939 and 1938

A verage croffit sales per	Nom.	gro ear in we	e with		Perce bui gro cor in	a stoles	
	reports	1080	1035	1937 enii prior years	1922	1937	1936 paid prior years
Wisolisaliana							
Under \$250. \$220 to \$606. \$500 to \$750. \$750 to \$1,000. \$1,000 and over	879 300 301 243 474	44.6 46.0	30.8 37.7 28.8 27.4 29.2	24. 4 26. 0 21. 4 25. 1 24. 1	41.0 62.1 45.0 64.0	80.1 34.1 25.7 27.0 29.4	26. 6 24. 9 21. 2 26. 8 10. 8
MANDACTORBUS		1	1			1	
Under \$250		42.6 35.0 25.3 39.0 20.5	34.8 38.1 31. 4 32.0 30.8	22. 6 25. 9 28. 8 28. 4 42. 8	41,2 39.1 27.9 55.8 32.6	20.4 40.4 42.5 28.6	28. 4 21. 5 29. 6 15. 5

Table 13.—Wholesalers' Bad-Debt Losses Analyzed According to Credit Terms, 1939 and 1938

Credit terms	Num-	Pereșe dentă te ăul	t had credit
	reports	3030	1038
2 percent 10 days, not 30 days. 2 percent 10 days a. o. m., net 30 days. Net, 30 days.	15 F B B	0. 20 . 48 . 31	0.85 -44 -24

Table 13.—Wholesalers' Bad-Debt Losses Analyzed According to Credit Terms, 1939 and 1938—Continued

Oredit terms	Num- ber of	Percen debts to est	credit.
	Telburta	1989	1948
I percent 10 days, but 39 days	114	.80	
2 percept 30 days, not 60 days.	104	.86 .28	.84
Net- 10 days	•	. 28	.31
2 Derocht 10 days o. c. m	84	180	. 64
2 percent 20 days, met 60 days	63	. 48 86 83	.4
2 percent 30 days, not 31 days. 2 percent 10 days e. c. m., not 10 days,	1288	. 80	
Na) Indian	썦	181	4
Not, 10 doje. 2 percept 18 days, not 30 days.	15	1 .23	20 10 10 10 10 10 10 10 10 10 10 10 10 10
2 Derrout 10 down o a m nat 15 down	84 20	.84 .87 .28	34
2 percent 10 doys o. o. m., mat 15 days	16		
1 percent 15 days, net 20 days.	39 36 32	29	. 23
2 percent 15 days, not 60 days	iž	. es .	170
1 percent 10 days c. c. in., not 30 days	1 12	.ao 1	188
5 percent 70 days, pet 90 days	1 11	.40	1 2
3 percent 100days, not 16 days	1 11	. 27	i#:
3 percent 30 days, bot 60 days	10	.00	, 50
P106, 00 0039.	. §	.70	.50
3 of 4 percent 70 days, net 98 days	l ₿	-44	1.7 1.7 1.7
2 percent 60 days, but 61 days	₹	.49	- 4
3 or 4 percent 10 days, not 60 days.	! ?	.34 .25	, ଅ
3 or 4 percent 10 days o. o. m	8887778	. 20	-18
1 percent 10 days c. o. uh.		:備	- 5
5 or 4 percent 10 days, not 30 days.			· sv
5 porcent'30 days, not 60 days.			1.7
1 porcent 16 days, net 20 days.	lε	.00	
1 percent 30 days, not 00 days	1 4	.139 .89	1.0
3 or 4 nercent 10 days, not 90 days.	4	I .8A	1.00
to 9 percent 13 days, not 30 days	1	.20	.22
6 to 9 percent 15 days, not 30 days. 1 percent 7 days, not 15 days.	4	. 19	.2
1 percent 7 days, net 30 days	4	. 17	,2

Table 14.—Manufacturers' Bad-Debt Losses Analyzed According to Credit Terms, 1939 and 1938

Orodit tarms	Num- ber of	Percen debts to	medit
	reparts	1686	1923
2 percent 10 days, net 30 days 1 percent 10 days, net 30 days 2 percent 12 days, net 30 days 2 percent 12 days, net 30 days 2 percent 10 days, net 30 days 3 percent 30 days, net 30 days 1 percent 30 days, net 30 days 1 percent 15 days, net 30 days 2 percent 10 days, net 40 days 1 percent 10 days, net 40 days 2 percent 10 days, net 40 days 3 percent 10 days, net 40 days 1 percent 10 days, net 40 days 3 percent 10 days, net 30 days 4 percent 10 days, net 30 days 5 percent 10 days, net 30 days 6 or 4 percent 10 days, net 30 days 5 percent 10 days, net 30 days 6 percent 15 days, net 30 days 7 percent 15 days, net 30 days 8 percent 16 days, net 30 days 9 percent 16 days, net 30 days 1 percent 10 days, net 30 days 2 percent 16 days, net 30 days 3 or 4 percent 30 days, net 30 days 1 percent 10 days, net 30 days 1 percent 20 days, net 30 days 2 percent 10 days, net 30 days 1 percent 20 days, net 30 days 2 percent 20 days, net 30 days 3 percent 20 days, net 30 days 4 percent 20 days, net 30 days 5 percent 20 days, net 30 days	228 183 72 54 74 44 82 72 18 11 19 8 7 7 7 8 8 8 4 4 4 4 4 4 4 4 4 4 4 4 4	1839934954954943	

Table 15.—Bad-Debt-Loss Percentages of Wholesalers and Manufacturers, Classified According to Credit-Term Factors, 1939 and 1938

Factors is credit torms	Num- bor of	debts	ot bad to credit dei	Factors in credit terms	Num- bor of	Percant debts to select to	a credit
	reports	1950	1988		reperté	3030	1938
WHOLEBALKERS Oesh discount extanded: Net, none 1 percent. 2 percent. 3 of \$ percent. 6 percent and more. Time in which each discount may be taken: 7 days. 10 days. 10 days. 20 of \$1 days. 30 of \$1 days. 40 or \$1 days. 41 days. 42 days. 43 days. 44 days. 44 days. 45 days. 46 days.	1,250 41 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	55. 15. 15. 15. 15. 15. 15. 15. 15. 15.	超界基金等 经票据金额条 医有电路干燥	Cash discount artended: Net, none. 1 persons 2 persons 3 or 4 persons 4 persons 10 days. 10 days 6, 0, m. 16 days. More than 51 days. Time at which net amount of invoice is due: 7 or 10 days. 6 days. 6 days. 6 days. 6 days. 6 days. 7 days. 7 days. 8 days. 8 days. 8 days. 9 days.	739 174 103 114 27 34 27 1,633	25.13 Section 8.15.2	0-14 18 17 21 87 19 22 23 20 26 26 27 28 28 28

Table 16.—Wholesalers' Bad-Debt Losses Analyzed According to Credit Terms, by Kinds of Business, 1939 and 1938

 -					-				_		
King of business and credit forms	Num- ber of re-	det ared	of had to t sales	Kind of business and credit forms	of re-	det	ot bed IV to t sales	Kind of business and credit terms	Num- ber of re-	ldeb	nt had ts to t sales
	ports	1039	1925		perts	LINE	1928		perts	3699	1038
Automotivo supplies		1. GJ	0.68 .99	Pull-line wholesale grocers		.32 .40	.20 .20 .47	Pleashing and heating ampples	88 88	. 109 . 44	:#
Capt	27	. # . # . # . #	. 84 . 49	Net, 15 days. Net, 15 days. 1 pursent 10 days, net 30 days	48 25	.49 .23	35 22 19	5 percent ID days a. c. m., net 60	21	. 85	.47
5 percent 30 days, not 60 days 2 percent 30 days, not 31 days Not, 30 days	6	.#L	. 73 69 27	1 percent 10 days, net 30 days Net, 10 days	*****	.25 .34	. [8]	2 percent 10 days o. e. m	11	.83 .73 .84	.44 .44
9 percent 10 days s. o. m., just 15		.41	AS.	1 percent 16 days, not 28 days 2 percent 7 days, not 38 days Voluntary-group wholesale grocors.	1	.25 11	.25 .22	1 percent 10 days, not 30 days Jewelry	38 10	. 20	.14 .71 1.06
Chemicals (Industrial): I percent 10 days, not 20 days 2 percent 10 days, not 30 days		:18 :18 :18	.20 .21 .22	Net, 15 days. Net, 7 days.	I 21.1	.83 .30	12022233322	Lumber and brilding materials	10	. 88 . 35	.44
Paints and Varnishes		뛼	1 10	Not. 30 days.	l 19	9228 at 252 253 374 556 2	. 13	2 percent 10 days, net 20 days 2 percent 19 days e. c. m., net 20 days.	, ,	. 22	.65
2 percent 10 days, not 50 days 2 percent 10 days, not 80 days Shoes and other footwess	14	18 18 18 18 18 18 18 18 18 18 18 18 18 1	.27 .40 .40	2 percent 10 days, not 30 days Not, 10 days Retailer-cooperative wholes als			.39	1 percent 10 days, net 50 days 2 percent 10 days o. c. m., net 60	5	.37	.58 .21
2 percent 10 days, not 30 days, Droses and drug samdries without	8		.41 .85	Net. 7 days	12	.05 .06	:05 :07	Mathinery, equipment, and sup- piles, except electrical	65		. 85 . 86
liquor department. 2 percent 10 days, not 30 days. Dry goods	. I 108	.28 L37 .57 .26 .25	1.50 .31 .31	Buscialty-line wholesale grocers 2 percent 16 days, not 38 days Not, 20 days	100 22 14	20 13 39	.35 .35 .07	2 percent 10 days, not 30 days 1 percent Mdays, not 30 days Not, 30 days	19		. 86 . 17
2 percent 60 days, not 90 days 2 percent 10 days, not 30 days 2 percent 30 days, not 30 days	1 19	.26 .25	.37 .31 .28	Not, 7 days. 1 percent 10 days, net 10 days Not, 10 days	131	10 00 2 30	12 89	days.	ءَ ا	.14	. 91
2 percent 70 days, set 90 days. 2 percent 80 days, not 60 days. 2 or 4 percent 10 days, not 60 days.		. L4 . 33 . 84	.23 .83	Wines and spirituous liquers	15	47	34	Surgical equipment and supplies. 3 percent 10 days, not 30 days Motals	13 13 50	.01 .01	.06 .04
2 percent to days, not 60 days 2 percent 60 days, not 61 days Blectrical goods	207 73	.24 .24	22 22 23 23 20	Net, 15 days	132	- O4.	.41	2 percent 10 days, not avenys	4	.23 .24 .10	,30 ,30 ,80
2 percent to days, not 30 days 2 percent 10 days o. c. za net 20	138			2 percent 16 days, not 60 days 2 percent 10 days, not 20 days 2 percent 10 days a, o. m., not 60		.45 .30	.4	Paper and its products. 2 percent 10 days, net 30 days. 2 percent 30 days, net 31 days.	84 30 31	\$234 9	38 72 29 21 37
days. 2 percent 80 days, not 60 days. 2 percent 10 days c. o. m., not 15		.89 .86	.83 .65	2 percent 30 days, net 00 days 2 percent 30 days s. o. m., net 30	12	:20 :37	:48	2 percent 30 days, net 83 days 2 percent 10 days e. o. m., net 80 2 percent 10 days e. o. m., net 80	7	.48 .40	37
Met, 30 days Duiry and poultry products	6	. 47 . 89 . 17	.41 .14	Hany had ware	29	. 325 . [6	. 23 . 26	days	n n	, 29 . 18	.19 .17
Dairy and poultry products Net, 7 days Frash fruits and vegetables Net, 7 days	75 30	. 19 . 84 . 19	.14 .32 .23	1 percent 10 days, net 80 days 2 percent 10 days, net 30 days 2 percent 10 days e. o. m., net 38	7	:13	. 21	Patrologia. 1 percent 10 days, net 30 days Tohanco and its products	. 120	.18 .10 .10	
Net, 7 days Net, 10 days	7	. 21	. H	Industrial supplies 2 parcent 10 days, not 30 days	183	. 20 . 40 . 13	3	2 percent 10 days, not 30 days 2 percent 30 days, not 81 days Not, 16 days	9	10 21 19 18 21 32	20 20 20 21 21 22
Net, 30 days	1 11	.41 64 .83 .84	. 14 . 44 . 33 . 33 . 33 . 40 . 48 . 25 . 35	2 Tracount 10 Gava e. o. m., bot 16	•	.78	.81 .86	Net, 30 days 2 percent 16 days, not 30 days 2 percent 10 days a. o. m., net 30	8 7 6	, 31 , 32	r
2 percent 10 days, not 20 days. 3 or 4 percent 70 days, not 20 days. Confectionary	10	40 44 39 41 83 25 14	.31 .33	2 percent 10 days a. c. m. 2 percent 10 days e. c. m., not 50 days	10 a	.21 .61		A to 9 nortest thicken, not 30 days.	1	.21 .20	.28
2 percent 10 days, not 30 days 2 percent 10 days, net 30 days	1	[[[]	. 44 . 48	percent 10 days, net 80 days 2 percent 30 days, net 80 days	ě	.01 .11 .04 .18	32.5	Leather and shoo findings. 2 percent 10 days, net 10 days. Missetiancous.	. 16	.64 .02	. 97 . 98 . 29
Not, 7 deys	64 22	114	15	2 percent 10 days, net 60 days. 1 percent 10 days e. s. m., net 10 days.	1	, 144 131.	.54 .13	2 percent 10 days, net 20 days Net, 30 days	. 10	.38 +16	11.
	1		1	II .	•	L	.	j .	1		L

Table 17.—Manufacturers' Bad-Debt Losses Analyzed According to Credit Terms, by Industries, 1939 and 1938

Industry and credit terms	Num- ber of roports	Cobis	nt bad to eredit iles	Industry and oredit terms	Numa- bar, of	Perce debta (
	i i i i i i i i i i i i i i i i i i i	1000	1038		roperts	1939	110
olectionery 3 percent 10 days, pet 30 days 3 percent 15 days, net 30 days	168 92 43 5	-0.10	0.21	Other chemical products 2 percent 10 does, not 20 days.	17	.20	
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Net, 20 days		, <u>, 97</u>	33 + 120 + 11 + 124 + 12	1 porcout 10 days, not 30 days	19	.32	1
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